Linear Algebra

Quiz for Section 3.1 and 3.2

September 23, 2006

Name:	R. Hammack	Score:
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Directions: Please answer all questions in the space provided. Use of calculators or any form of electronic communication device is strictly forbidden on this quiz.

1. Use any method discussed in class to find	$\left \begin{array}{c}2\\3\\0\\-2\end{array}\right $	$-1\\3\\1\\4$	$\begin{array}{c} -2 \\ 6 \\ 3 \\ 8 \end{array}$	$5 \\ 1 \\ 0 \\ -2$	
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First do $C_3 - 2C_2 \rightarrow C_3$ and then expand along the third column:

	$2 \\ 3 \\ 0 \\ -2$	$-1 \\ 3 \\ 1 \\ 4$	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \end{array} $	$5 \\ 1 \\ 0 \\ -2$	=	$2 \\ 3 \\ -2$	$-1 \\ 3 \\ 4$	$5 \\ 1 \\ -2$	=	$\begin{vmatrix} 2\\ 3\\ 0 \end{vmatrix}$	$-1 \\ 3 \\ 3$	$5 \\ 1 \\ 3$	=2	$\frac{3}{3}$	$\frac{1}{3}$	-3	$\begin{vmatrix} -1\\ 3 \end{vmatrix}$	$5\\3$	=2	$\cdot 6 + 3$	$\cdot 18 = [$	66.
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